

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	142	indirect same bandgap same (semiconductor semi-conductor) same (laser diode)	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L2	18457	quantum near2 well	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L3	54	L1 and L2	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L4	599193	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD- ROM" "DvD- ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L5	19	L3 and L4	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L6	29488	quantum near2 (well dot)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2008/10/15 12:17
L7	2319628	laser beam light	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L8	591	AlGaP AlxGaxPx	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L9	589	indirect near2 (semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L10	134	L6 and (L9 same L7)	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L11	4	L10 and L8	US-PGPUB; USPAT	OR	ON	2008/10/15 12:17
L12	362	isshiki.in.	US-PGPUB; USPAT	OR	ON	2008/10/15 13:50
L13	50265	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2008/10/15 13:50
L14	16	12 and 13	US-PGPUB; USPAT; EPO; JPO	OR	ON	2008/10/15 13:50

L16	0	((indirect adj3 (bandgap band-gap (band adj2 gap)) adj3 (semiconduct\$3 semi- conduct\$3)) and ((asymmetric\$4 asymetric\$4 assymetric \$4) adj3 (quantum adj2 (structure well))) and oscillat\$4).clm.	US-PGPUB	OR	ON	2008/10/15 13:55
S1	512788	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2005/09/08 14:48
S2	512654	(indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2005/09/08 14:59
S3	1682502	laser beam light	US-PGPUB; USPAT	OR	ON	2005/09/08 15:12
S4	79680	S2 near5 S3	US-PGPUB; USPAT	OR	ON	2005/09/08 14:59
S5	434894	detector senor photosensor	US-PGPUB; USPAT	OR	ON	2005/09/08 15:02
S6	7653	S4 same S5	US-PGPUB; USPAT	OR	ON	2005/09/08 14:59
S7	20619	optical adj5 head	US-PGPUB; USPAT	OR	ON	2005/09/08 14:55
S8	651	S6 same S7	US-PGPUB; USPAT	OR	ON	2005/09/08 14:55
S9	39208	"369"/\$.cdls.	US-PGPUB; USPAT	OR	ON	2006/02/08 13:11
S10	519	S8 and S9	US-PGPUB; USPAT	OR	ON	2005/09/08 14:57
S11	12490	quantum near5 well	US-PGPUB; USPAT	OR	ON	2006/02/08 13:10
S12	0	S8 same S11	US-PGPUB; USPAT	OR	ON	2005/09/08 14:57
S13	16	S8 and S11	US-PGPUB; USPAT	OR	ON	2005/09/08 14:57
S14	399	(indirect near2 (semi- conductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2005/09/09 13:38
S15	83	S14 near5 S3	US-PGPUB; USPAT	OR	ON	2005/09/08 14:59
S16	2	S15 same S5	US-PGPUB; USPAT	OR	ON	2005/09/08 15:02

S17	852952	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2005/09/09 13:39
S18	2	S15 same S17	US-PGPUB; USPAT	OR	ON	2005/09/08 15:03
S19	16	S15 and S17	US-PGPUB; USPAT	OR	ON	2005/09/08 15:03
S20	7	S19 and S11	US-PGPUB; USPAT	OR	ON	2005/09/08 15:03
S21	13695	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2005/09/09 13:57
S22	3230065	laser beam light material	US-PGPUB; USPAT	OR	ON	2005/09/09 13:39
S23	173	S14 near5 S22	US-PGPUB; USPAT	OR	ON	2005/09/08 15:13
S24	64739	(barrier near2 layer) same (active nesr2 layer)	US-PGPUB; USPAT	OR	ON	2005/09/08 15:14
S25	6	S23 same S24	US-PGPUB; USPAT	OR	ON	2005/09/08 15:15
S27	27	S23 and S24 and S21	US-PGPUB; USPAT	OR	ON	2005/09/08 15:22
S28	7	S27 and S17	US-PGPUB; USPAT	OR	ON	2005/09/08 15:22
S29	399	(indirect near2 (semi- conductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2005/09/09 13:38
S30	3230065	laser beam light material	US-PGPUB; USPAT	OR	ON	2005/09/09 13:39
S31	295387	lens\$2	US-PGPUB; USPAT	OR	ON	2005/09/09 13:39
S32	852952	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2005/09/09 13:39
S33	1	(S29 near5 S30) same S31 same S32	US-PGPUB; USPAT	OR	ON	2005/09/09 13:41
S34	11	(S29 near5 S30) and S31 and S32	US-PGPUB; USPAT	OR	ON	2005/09/09 14:01
S35	61317	S30 same S31 same S32	US-PGPUB; USPAT	OR	ON	2005/09/09 13:59
S36	39208	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2005/09/09 13:53
S37	5803	S35 and S36	US-PGPUB; USPAT	OR	ON	2005/09/09 13:55
S38	13695	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2005/09/09 13:57
S39	61	S37 and S38	US-PGPUB; USPAT	OR	ON	2005/09/09 13:58

S40	1	S29 same S30 same S31 same S32	US-PGPUB; USPAT	OR	ON	2005/09/09 14:01
S41	20	S29 and S30 same S31 same S32	US-PGPUB; USPAT	OR	ON	2005/09/09 14:01
S42	35	S29 and S30 and S31 and S32	US-PGPUB; USPAT	OR	ON	2005/09/12 10:32
S43	338100	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD- ROM" "DvD- ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2005/09/09 14:46
S44	19	S42 and S43	US-PGPUB; USPAT	OR	ON	2005/09/09 14:46
S45	128618	cooler "heat sink" heat-sink heatsink	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S46	399	(indirect near2 (semi- conductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S47	3230064	laser beam light material	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S48	295387	lens\$2	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S49	852953	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S50	35	S46 and S47 and S48 and S49	US-PGPUB; USPAT	OR	ON	2005/09/12 10:34
S51	3	S45 and S50	US-PGPUB; USPAT	OR	ON	2005/09/12 10:35
S52	543538	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:29
S53	543391	(indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S54	1759567	laser beam light	US-PGPUB; USPAT	OR	ON	2006/02/07 10:29
S55	84440	S53 near5 S54	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S56	454333	detector senor photosensor	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S57	8042	S55 same S56	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03

S58	21654	optical adj5 head	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S59	679	S57 same S58	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S60	40798	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/07 10:34
S61	540	S59 and S60	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S62	13366	quantum near5 well	US-PGPUB; USPAT	OR	ON	2006/02/07 10:31
S63	0	S59 same S62	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S64	18	S59 and S62	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S65	420	(indirect near2 (semi-conductor semiconductor (semi-adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S66	88	S65 near5 S54	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S67	2	S66 same S56	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S68	895868	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S69	2	S66 same S68	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S70	16	S66 and S68	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S71	7	S70 and S62	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S72	14684	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S73	3355498	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S74	181	S65 near5 S73	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S75	68723	(barrier near2 layer) same (active nesr2 layer)	US-PGPUB; USPAT	OR	ON	2006/02/07 10:30
S76	6	S74 same S75	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S77	27	S74 and S75 and S72	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S78	7	S77 and S68	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03

S79	420	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S80	3355498	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S81	310480	lens\$2	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S82	895868	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S83	1	(S79 near5 S80) same S81 same S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S84	11	(S79 near5 S80) and S81 and S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S85	64932	S80 same S81 same S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S86	40798	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S87	6111	S85 and S86	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S88	14684	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S89	61	S87 and S88	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S90	1	S79 same S80 same S81 same S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S91	22	S79 and S80 same S81 same S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S92	38	S79 and S80 and S81 and S82	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S93	367763	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S94	21	S92 and S93	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S95	134235	cooler "heat sink" heat-sink heatsink	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03
S96	420	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/02/07 10:28
S97	3355498	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/02/07 10:03

S98	310480	lens\$2	US_PGPUB; USPAT	OR	ON	2006/02/07 10:03
S99	895868	detector sensor photosensor	US_PGPUB; USPAT	OR	ON	2006/02/07 10:03
S100	38	S96 and S97 and S98 and S99	US_PGPUB; USPAT	OR	ON	2006/02/07 10:03
S101	3	S95 and S100	US_PGPUB; USPAT	OR	ON	2006/02/07 10:03
S102	1656304	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:39
S103	4431039	laser beam light	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:29
S104	95426	(active near2 layer\$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:30
S105	21914	quantum near5 well	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:31
S106	249119	asymmetric\$2 unbalanced	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:32
S107	204	S102 and S103 and S104 and (S105 same S106)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:35
S108	95910	"369"/\$.cls.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:34
S109	1	S102 and S103 and S104 and (S105 same S106) and S108	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:36

S110	749930	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:35
S111	51	S102 and S103 and S104 and (S105 same S106) and S110	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 10:43
S112	2	("4712219").PN.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/07 10:43
S113	168208	(indirect near2 semiconductor semiconductor (semi adj2 conductor)) same laser	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:41
S114	1656304	(indirect near3 laser) (indirect near2 semiconductor semiconductor (semi adj2 conductor))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:39
S115	4431039	laser beam light	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:39
S116	95426	(active near2 layer\$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:24
S117	21914	quantum near5 well	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:39
S118	249119	asymmetric\$2 unbalanced	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:43

S119	95910	"369"/\$.ccls.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:39
S120	1	S114 and S115 and S116 and (S117 same S118) and S119	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:40
S121	1	S113 and S115 and S116 and (S117 same S118) and S119	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:41
S122	70	(indirect near2 (semi-conductor semiconductor (semi adj2 conductor))) same laser	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 14:41
S123	1	S122 and S115 and S116 and (S117 same S118) and S119	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:10
S124	520731	asymmetric\$2 unbalanced irregular \$2	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 13:10
S125	1	S122 and S115 and S116 and (S117 same S124) and S119	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:23
S126	1	S122 and S115 and S116 and (S117 same S124)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:24
S127	116239	((transmission transmitting active) near2 layer\$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:24
S128	1	S122 and S115 and S127 and (S117 same S124)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/07 15:25

S129	733445	asymmetric\$2 unbalanced irregular \$2 disorder\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 13:10
S130	14684	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/02/08 13:11
S131	739	S129 same S130	US-PGPUB; USPAT	OR	ON	2006/02/08 13:12
S132	95910	"369"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/08 13:11
S133	3	S131 and S132	US-PGPUB; USPAT	OR	ON	2006/02/08 13:11
S134	386	S129 near5 S130	US-PGPUB; USPAT	OR	ON	2006/02/08 13:12
S135	1	S132 and S134	US-PGPUB; USPAT	OR	ON	2006/02/08 13:12
S136	573761	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:50
S137	573607	(indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S138	1834515	laser beam light	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S139	88910	S137 near5 S138	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S140	473295	detector senor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S141	8353	S139 same S140	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S142	22680	optical adj5 head	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S143	691	S141 same S142	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S144	42162	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S145	550	S143 and S144	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S146	14174	quantum near5 well	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S147	0	S143 same S146	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25

S148	18	S143 and S146	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S149	439	(indirect near2 (semi-conductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S150	89	S149 near5 S138	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S151	2	S150 same S140	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S152	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S153	2	S150 same S152	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S154	16	S150 and S152	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S155	7	S154 and S146	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S156	15602	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:51
S157	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S158	187	S149 near5 S157	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S159	72476	(barrier near2 layer) same (active nesr2 layer)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S160	6	S158 same S159	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S161	27	S158 and S159 and S156	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S162	7	S161 and S152	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S163	439	(indirect near2 (semi-conductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S164	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S165	325002	lens\$2	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S166	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S167	1	(S163 near5 S164) same S165 same S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S168	11	(S163 near5 S164) and S165 and S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25

S169	68412	S164 same S165 same S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S170	42162	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S171	6382	S169 and S170	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S172	15602	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S173	64	S171 and S172	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S174	1	S163 same S164 same S165 same S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S175	23	S163 and S164 same S165 same S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S176	42	S163 and S164 and S165 and S166	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S177	396318	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S178	21	S176 and S177	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S179	139508	cooler "heat sink" heat-sink heatsink	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S180	439	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S181	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S182	325002	lens\$2	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S183	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S184	42	S180 and S181 and S182 and S183	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S185	3	S179 and S184	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S186	573761	(indirect near3 laser) (indirect near2 semiconductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25

S187	573607	(indirect near2 semi-conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S188	1834515	laser beam light	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S189	88910	S187 near5 S188	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S190	473295	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S191	8353	S189 same S190	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S192	22680	optical adj5 head	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S193	691	S191 same S192	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S194	42162	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S195	550	S193 and S194	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S196	14174	quantum near5 well	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S197	0	S193 same S196	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S198	439	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S199	89	S198 near5 S188	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S200	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S201	2	S199 same S200	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S202	16	S199 and S200	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S203	15602	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S204	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S205	187	S198 near5 S204	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S206	72476	(barrier near2 layer) same (active nesr2 layer)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25

S207	439	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S208	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S209	325002	lens\$2	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S210	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S211	68412	S208 same S209 same S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S212	42162	"369"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S213	6382	S211 and S212	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S214	15602	quantum near5 (well structure)	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S215	1	S207 same S208 same S209 same S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S216	23	S207 and S208 same S209 same S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S217	396318	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S218	139508	cooler "heat sink" heat-sink heatsink	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S219	439	(indirect near2 (semiconductor semiconductor (semi adj2 conductor)))	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S220	3477440	laser beam light material	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S221	325002	lens\$2	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S222	938196	detector sensor photosensor	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S223	42	S219 and S220 and S221 and S222	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S224	1	(S207 near5 S208) same S209 same S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S225	18	S193 and S196	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25

S226	2	S199 same S190	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S227	7	S202 and S196	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S228	6	S205 same S206	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S229	27	S205 and S206 and S203	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S230	7	S229 and S200	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S231	11	(S207 near5 S208) and S209 and S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S232	64	S213 and S214	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S233	42	S207 and S208 and S209 and S210	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S234	21	S233 and S217	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S235	3	S218 and S223	US-PGPUB; USPAT	OR	ON	2006/06/15 15:25
S236	1705612	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S237	4545512	laser beam light	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S238	99175	(active near2 layer\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S239	22826	quantum near5 well	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S240	257704	asymmetric\$2 unbalanced	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S241	214	S236 and S237 and S238 and (S239 same S240)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25

S242	97274	"369"/\$.ccls.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S243	1	S236 and S237 and S238 and (S239 same S240) and S242	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S244	785583	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD- ROM" "DvD- ROM" (digital near2 (versatile video) near2 (disk disc))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S245	54	S236 and S237 and S238 and (S239 same S240) and S244	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S246	2	("4712219").PN.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/06/15 15:25
S247	173525	(indirect near2 semi- conductor semiconductor (semi adj2 conductor)) same laser	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S248	1705612	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S249	4545512	laser beam light	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S250	99175	(active near2 layer\$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25

S251	22826	quantum near5 well	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S252	257704	asymmetric\$2 unbalanced	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S253	97274	"369"/\$.ccls.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S254	1	S248 and S249 and S250 and (S251 same S252) and S253	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S255	1	S247 and S249 and S250 and (S251 same S252) and S253	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S256	73	(indirect near2 (semiconductor semiconductor (semi adj2 conductor))) same laser	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S257	1	S256 and S249 and S250 and (S251 same S252) and S253	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S258	536094	asymmetric\$2 unbalanced irregular \$2	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S259	1	S256 and S249 and S250 and (S251 same S258) and S253	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S260	1	S256 and S249 and S250 and (S251 same S258)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25

S261	121217	((transmission transmitting active) near2 layer\$3)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S262	1	S256 and S249 and S261 and (S251 same S258)	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S263	757845	asymmetric\$2 unbalanced irregular \$2 disorder\$2	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:51
S264	15602	quantum near5 (well structure)	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S265	763	S263 same S264	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S266	97274	"369"/\$.ccls.	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:25
S267	3	S265 and S266	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S268	397	S263 near5 S264	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S269	1	S266 and S268	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S270	397	S263 near5 S264	US_PGPUB; USPAT	OR	ON	2006/06/15 15:25
S271	1013367	(indirect near3 laser) (indirect near2 semi-conductor semiconductor (semi adj2 conductor))	US_PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:50
S272	20177	quantum near5 (well structure)	US_PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:51
S273	377516	asymmetric\$2 unbalanced irregular \$2	US_PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:51
S274	2069	S271 and S272 and S273	US_PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/15 15:52

S275	209	S271 same S272 same S273	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:54
S276	510853	lens\$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:54
S277	31	S275 and S276	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/06/15 15:54
S278	22672	quantum near2 (well dot)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/12/18 14:50
S280	1941016	laser beam light	US-PGPUB; USPAT	OR	ON	2006/12/18 14:51
S284	495	AlGaP AlxGaxPx	US-PGPUB; USPAT	OR	ON	2006/12/18 14:54
S286	465	indirect near2 (semiconductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2006/12/18 14:54
S287	17	S278 same S286 same S280	US-PGPUB; USPAT	OR	ON	2006/12/18 14:56
S288	106	S278 and (S286 same S280)	US-PGPUB; USPAT	OR	ON	2006/12/18 14:56
S289	1	S287 and S284	US-PGPUB; USPAT	OR	ON	2006/12/18 14:56
S290	4	S288 and S284	US-PGPUB; USPAT	OR	ON	2006/12/18 14:56
S291	15370	semiconductor and sato.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/12/18 15:29
S292	2	("6452215") or ("6072196").PN.	US-PGPUB; USPAT	OR	OFF	2006/12/18 15:29
S293	2	S292 and confin\$7	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/12/18 15:29
S294	1	"6741538"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/12/18 15:55
S295	25367	quantum near2 (well dot)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/11 17:00
S296	2093289	laser beam light	US-PGPUB; USPAT	OR	ON	2007/09/11 17:00
S297	525	AlGaP AlxGaxPx	US-PGPUB; USPAT	OR	ON	2007/09/11 17:00

S298	511	indirect near2 (semiconductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT	OR	ON	2007/09/11 17:00
S299	117	S295 and (S298 same S296)	US-PGPUB; USPAT	OR	ON	2007/09/11 17:00
S300	4	S299 and S297	US-PGPUB; USPAT	OR	ON	2007/09/11 17:00
S301	1147592	(indirect near3 laser) (indirect near2 semi- conductor semiconductor (semi adj2 conductor))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/11 17:01
S302	23576	quantum near5 (well structure)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/11 17:01
S303	429224	asymmetric\$2 unbalanced irregular \$2	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/11 17:01
S304	227	S301 same S302 same S303	US-PGPUB; USPAT; EPO; JPO	OR	ON	2007/09/11 17:01
S305	318	(biased uneven asymmetric\$2 irregular \$2) near3 (quantum adj2 well)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2008/03/20 10:23
S306	290	S305 and (laser light)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2008/03/20 10:24
S307	11	("5515393"   "6066862"   "6072196"   "6072819"   "6087681"   "6091753"   "6154475"   "6175582"   "6476411"   "6731663"   "6996148").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/20 10:31
S308	4	("5412225"   "5606176"   "6100543"   "6859474").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/20 10:37
S309	1	10/082314	US-PGPUB; USPAT; EPO; JPO	OR	ON	2008/03/20 13:12

S310	4	indirect near3 bandgap near3 (semiconductor semiconductor) near3 (laser diode)	US-PGPUB; USPAT	OR	ON	2008/03/24 17:09
S311	125	indirect same bandgap same (semiconductor semi-conductor) same (laser diode)	US-PGPUB; USPAT	OR	ON	2008/03/24 17:11
S312	17229	quantum near2 well	US-PGPUB; USPAT	OR	ON	2008/03/24 17:11
S313	49	S311 and S312	US-PGPUB; USPAT	OR	ON	2008/03/24 17:11
S316	48237	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2008/03/24 17:13
S317	0	S313 and S316	US-PGPUB; USPAT	OR	ON	2008/03/24 17:13
S318	0	S311 and S316	US-PGPUB; USPAT	OR	ON	2008/03/24 17:13
S319	546085	((optical compact) near2 (disk\$2 disc\$2 medium)) CD DvD CDROM DvDROM "CD-ROM" "DvD-ROM" (digital near2 (versatile video) near2 (disk disc))	US-PGPUB; USPAT	OR	ON	2008/03/24 17:14
S320	16	S313 and S319	US-PGPUB; USPAT	OR	ON	2008/03/24 17:14
S321	1	10/082314	US-PGPUB; USPAT	OR	ON	2008/10/15 10:25

10/15/2008 2:41:05 PM

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